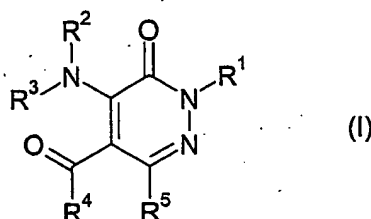


CLAIMS:

1. A pyridazin-3(2H)-one derivative of formula (I):



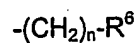
5

wherein

R<sup>1</sup> and R<sup>2</sup> represent independently from each other:

- a hydrogen atom;
- 10 • a group selected from acyl, hydroxycarbonyl, alkoxycarbonyl, carbamoyl, monoalkylcarbamoyl or dialkylcarbamoyl;
- an alkyl, alkenyl or alkynyl group, which is optionally substituted by one or more substituents selected from halogen atoms and hydroxy, alkoxy, aryloxy, alkylthio, oxo, amino, mono- or di-alkylamino, acylamino, carbamoyl or mono- or di-
- 15 alkylcarbamoyl groups;
- an aryl or heteroaryl group which is optionally substituted by one or more substituents selected from halogen atoms and hydroxy, hydroxyalkyl, hydroxycarbonyl, alkoxy, alkylenedioxy, alkoxycarbonyl, aryloxy, acyl, acyloxy, alkylthio, amino, nitro, cyano, mono- or di-alkylamino, acylamino, carbamoyl or mono- or di-
- 20 di-alkylcarbamoyl, difluoromethyl, trifluoromethyl, difluoromethoxy or trifluoromethoxy groups;
- a saturated or unsaturated heterocyclic group which is optionally substituted by one or more substituents selected from halogen atoms and hydroxy, hydroxyalkyl, hydroxycarbonyl, alkoxy, alkylenedioxy, alkoxycarbonyl, aryloxy, acyl, acyloxy, alkylthio, oxo, amino, nitro, cyano, mono- or di-alkylamino, acylamino, carbamoyl or mono- or
- 25 di-alkylcarbamoyl, difluoromethyl, trifluoromethyl, difluoromethoxy or trifluoromethoxy groups;
- a group of formula

30



wherein n is an integer from 0 to 4 and R<sup>6</sup> represents:

- a cycloalkyl or cycloalkenyl group;
- an aryl group, which is optionally substituted by one or more substituents selected from halogen atoms and alkyl, hydroxy, alkoxy, alkylenedioxy, alkylthio, amino, mono- or di-alkylamino, nitro, acyl, hydroxycarbonyl, alkoxycarbonyl, carbamoyl, mono- or di-alkylcarbamoyl, cyano, trifluoromethyl, difluoromethoxy or trifluoromethoxy groups;
- or a 3- to 7-membered ring comprising from 1 to 4 heteroatoms selected from nitrogen, oxygen and sulphur, which ring is optionally substituted by one or more substituents selected from halogen atoms and alkyl, hydroxy, alkoxy, alkylenedioxy, amino, mono- or di-alkylamino, nitro, cyano or trifluoromethyl groups;

R<sup>3</sup> represents a monocyclic or polycyclic aryl or heteroaryl group, which is optionally substituted by one or more substituents selected from:

- halogen atoms;
- alkyl and alkylene groups, which are optionally substituted by one or more substituents selected from halogen atoms; and phenyl, hydroxy, hydroxyalkyl, alkoxy, aryloxy, alkylthio, oxo, amino, mono- or di-alkylamino, acylamino, hydroxycarbonyl, alkoxycarbonyl, carbamoyl, mono- or di-alkylcarbamoyl groups;
- phenyl, hydroxy, hydroxyalkyl, alkoxy, cycloalkoxy, nitro, aryloxy, alkylthio, alkylsulphanyl, alkylsulphonyl, alkylsulfamoyl, acyl, amino, mono- or di-alkylamino, acylamino, hydroxycarbonyl, alkoxycarbonyl, carbamoyl, mono- or di-alkylcarbamoyl, ureido, N'-alkylureido, N',N'-dialkylureido, alkylsulphamido, aminosulphonyl, mono- or di-alkylaminosulphonyl, cyano, difluoromethoxy or trifluoromethoxy groups;

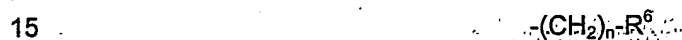
R<sup>5</sup> represents a group -COOR<sup>7</sup> or a monocyclic or polycyclic aryl or heteroaryl group, which is optionally substituted by one or more substituents selected from:

- halogen atoms;
- alkyl and alkenyl groups, which are optionally substituted by one or more substituents selected from halogen atoms and phenyl, hydroxy, hydroxyalkyl, alkoxy, aryloxy, alkylthio, oxo, amino, mono- or di-alkylamino, acylamino,

hydroxycarbonyl, alkoxycarbonyl, carbamoyl, mono- or di-alkylcarbamoyl groups; and

- phenyl, hydroxy, alkylendioxy, alkoxy, cycloalkyloxy, alkylthio, alkylsulphinyl, alkylsulphonyl, alkylsulfamoyl, amino, mono- or di-alkylamino, acylamino, nitro, acyl, hydroxycarbonyl, alkoxycarbonyl, carbamoyl, mono- or di-alkylcarbamoyl, ureido, N'-alkylureido, N',N'-dialkylureido, alkylsulphamido, aminosulphonyl, mono- or di-alkylaminosulphonyl, cyano, difluoromethoxy or trifluoromethoxy groups;

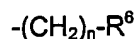
wherein  $R^7$  represents an alkyl which is optionally substituted by one or more substituents selected from halogen atoms and hydroxy, alkoxy, aryloxy, alkylthio, oxo, amino, mono- or di-alkylamino, acylamino, hydroxycarbonyl, alkoxycarbonyl, carbamoyl, mono- or di-alkylcarbamoyl groups or a group of formula



wherein n and  $R^6$  are as defined above; and

$R^4$  represents:

- a hydrogen atom;
- a hydroxy, alkoxy, amino, mono- or di-alkylamino group;
- an alkyl, alkenyl or alkynyl group which is optionally substituted by one or more substituents selected from halogen atoms and hydroxy, alkoxy, aryloxy, alkylthio, oxo, amino, mono- or di-alkylamino, acylamino, hydroxycarbonyl, alkoxycarbonyl, carbamoyl and mono- or di-alkylcarbamoyl groups;
- or a group of formula

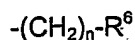


wherein n and  $R^6$  are as defined above.

as well as the N-oxides obtainable from the heteroaryl radicals present in the structure when these heteroradicals comprise N atoms and pharmaceutically acceptable salts thereof.

with the proviso that when  $R^5$  is neither an optionally substituted heteroaryl group nor a group  $COOR^7$ , then  $R^3$  is an optionally substituted heteroaryl group.

- 5 2. A compound according to claim 1 wherein  $R^2$  represents a hydrogen atom or an aryl group which is optionally substituted by one or more substituents selected from halogen atoms and nitro,  $C_1$ - $C_4$  alkoxy,  $C_1$ - $C_4$  hydroxyalkyl and  $-CO_2$ -( $C_1$ - $C_4$  alkyl) groups.
- 10 3. A compound according to claim 2, wherein  $R^2$  is a hydrogen atom or a phenyl group which is unsubstituted or substituted with 1 or 2 unsubstituted substituents selected from fluorine or chlorine atoms and nitro,  $C_1$ - $C_4$  hydroxyalkyl and  $-CO_2$ -( $C_1$ - $C_2$  alkyl) groups.
- 15 4. A compound according to any preceding claim wherein  $R^1$  represents a group selected from:
- a ( $C_1$ - $C_4$ ) alkyl group which is optionally substituted by one or more hydroxy groups; and
  - 20 • groups of formula



- 25 wherein n is an integer from 1 to 3 and  $R^6$  represents a ( $C_3$ - $C_6$ ) cycloalkyl group.

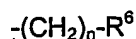
5. A compound according to claim 4, wherein  $R^1$  is an unsubstituted  $C_1$ - $C_4$  alkyl, an unsubstituted  $C_1$ - $C_4$  hydroxyalkyl or an unsubstituted cyclopropyl-( $C_1$ - $C_4$  alkyl)- group.
- 30 6. A compound according to any preceding claim wherein  $R^3$  represents a monocyclic or polycyclic aryl or heteroaryl group, which is optionally substituted by one or more substituents selected from:
- halogen atoms;
  - alkyl and alkylene groups, which are optionally substituted by one or more
  - 35 substituents selected from halogen atoms

- phenyl, hydroxy, hydroxycarbonyl, hydroxyalkyl, alkoxycarbonyl, alkoxy, cycloalkoxy, nitro, aryloxy, alkylthio, alkylsulphinyl, alkylsulphonyl, alkylsulfamoyl, acyl, amino, mono- or di-alkylamino, acylamino, hydroxycarbonyl, alkoxycarbonyl, carbamoyl, mono- or di-alkylcarbamoyl, ureido, N'-alkylureido, N',N'-dialkylureido, alkylsulphamido, aminosulphonyl, mono- or di-alkylaminosulphonyl, cyano, difluoromethoxy or trifluoromethoxy groups;
- 7. A compound according to claim 6 wherein R<sup>3</sup> represents a group selected from monocyclic or polycyclic aryl or heteroaryl groups, which are optionally substituted by one or more substituents selected from:

  - halogen atoms;
  - (C<sub>1</sub>-C<sub>4</sub>) alkyl groups, which are optionally substituted by one or more hydroxy groups;
  - and (C<sub>1</sub>-C<sub>4</sub>) alkoxy, nitro, hydroxy, hydroxycarbonyl, carbamoyl, (C<sub>1</sub>-C<sub>4</sub> alkoxy)-carbonyl or cyano groups.
- 8. A compound according to claim 7, wherein R<sup>3</sup> represents a phenyl group, a naphthyl group or a 5- to 14-membered monocyclic or polycyclic heteroaryl group containing 1, 2 or 3 heteroatoms selected from N, O and S; the phenyl, naphthyl and heteroaryl groups being unsubstituted or substituted with 1 or 2 unsubstituted substituents selected from:

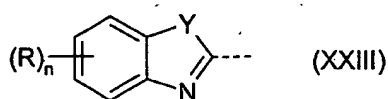
  - halogen atoms;
  - C<sub>1</sub>-C<sub>4</sub> alkyl and C<sub>1</sub>-C<sub>4</sub> hydroxyalkyl groups; and
  - C<sub>1</sub>-C<sub>4</sub> alkoxy, nitro, hydroxy, hydroxycarbonyl, carbamoyl, (C<sub>1</sub>-C<sub>4</sub> alkoxy)-carbonyl and cyano groups.
- 9. A compound according to claim 8 wherein R<sup>3</sup> represents a phenyl group, a naphthyl group or a substituted or unsubstituted heteroaryl group selected from substituted or unsubstituted oxadiazolyl, oxazolyl, pyridyl, pyrrolyl, imidazolyl, thiazolyl, thiadiazolyl, thienyl, furanyl, quinolinyl, isoquinolinyl, indolyl, benzoxazolyl, naphthyridinyl, benzofuranyl, pyrazinyl, pyrimidinyl and the various pyrrolopyridyl radicals.
- 10. A compound according to any preceding claim, wherein R<sup>4</sup> represents:

- an unsubstituted mono-(C<sub>1</sub>-C<sub>4</sub> alkyl)amino or di-(C<sub>1</sub>-C<sub>4</sub> alkyl)amino group;
- a C<sub>1</sub>-C<sub>4</sub> alkyl group which is unsubstituted or substituted by one or more substituents selected from hydroxy, C<sub>1</sub>-C<sub>4</sub> alkoxy, amino, mono-(C<sub>1</sub>-C<sub>4</sub> alkyl)amino and di-(C<sub>1</sub>-C<sub>4</sub> alkyl)amino groups;
- 5 • an unsubstituted phenyl-(C<sub>1</sub>-C<sub>4</sub> alkyl)- group; or
- a group of formula



- 10 wherein n is 2 and R<sup>6</sup> represents a radical selected from phenyl, pyridyl and thienyl optionally substituted by one or more substituents selected from halogen atoms and alkyl, hydroxy, alkoxy, alkylenedioxy, amino, mono- or di-alkylamino, nitro, ciano and trifluoromethyl groups.
- 15 11. A compound according to claim 10 wherein R<sup>4</sup> represents an alkyl group having from 1 to 6 carbon atoms and which is optionally substituted by one or more substituents selected from halogen atoms and hydroxy groups
- 20 12. A compound according to any preceding claim wherein R<sup>5</sup> represents a group COOR<sup>7</sup> or a monocyclic or polycyclic aryl or heteroaryl group, which is optionally substituted by one or more substituents selected from halogen atoms, C<sub>1</sub>-C<sub>4</sub> alkyl groups, C<sub>1</sub>-C<sub>4</sub> alkoxy carbonyl groups, a hydroxycarbonyl group and C<sub>1</sub>-C<sub>4</sub> alkoxy groups, wherein R<sup>7</sup> is as defined in claim 1.
- 25 13. A compound according to claim 12 wherein R<sup>5</sup> represents a group COOR<sup>7</sup> or a monocyclic or polycyclic aryl or heteroaryl group, which is optionally substituted by one or more substituents selected from halogen atoms and C<sub>1</sub>-C<sub>4</sub> alkoxy groups, wherein R<sup>7</sup> is as defined in claim 1.
- 30 14. A compound according to claims 12 or 13, wherein R<sup>5</sup> represents -CO<sub>2</sub>R<sup>7</sup>, wherein R<sup>7</sup> represents an unsubstituted C<sub>1</sub>-C<sub>4</sub> alkyl group, or R<sup>5</sup> represents a phenyl group or a 5- to 10- membered monocyclic or polycyclic heteroaryl group containing 1 or 2 heteroatoms selected from N, O and S, the phenyl and heteroaryl groups being unsubstituted or substituted by 1 or 2 substituents selected from C<sub>1</sub>-C<sub>4</sub> alkoxy groups and halogen atoms, for example chlorine and fluorine atoms.
- 35

15. A compound according to claim 14 wherein R<sup>5</sup> represents a phenyl group, or a substituted or unsubstituted heteroaryl group selected from substituted or unsubstituted oxadiazolyl, oxazolyl, pyridyl, pyrrolyl, imidazolyl, thiazolyl, thiadiazolyl, thienyl, furanyl, quinoliny, isoquinoliny, indolyl, benzoxazolyl, naphthyridinyl, benzofuranyl, pyrazinyl, pyrimidinyl and the various pyrrolopyridyl radicals
16. A compound according to any preceding claim, wherein when R<sup>5</sup> represents a polycyclic heteroaryl group it represents a group of formula (XXIII):



wherein Y represents an O atom, a S atom or an -NH- group, n is 0, 1 or 2 and each R is the same or different and is a C<sub>1</sub>-C<sub>4</sub> alkoxy group or a halogen atom.

15

17. A compound according to any preceding claim which is one of:

- 5-acetyl-2-ethyl-4-[(3-fluorophenyl)amino]-6-pyridin-3-ylpyridazin-3(2H)-one
- 5-acetyl-4-[(3-chlorophenyl)amino]-2-ethyl-6-pyridin-3-ylpyridazin-3(2H)-one
- 20 5-acetyl-4-[(3,5-dichlorophenyl)amino]-2-ethyl-6-pyridin-3-ylpyridazin-3(2H)-one
- 5-acetyl-2-ethyl-4-(1-naphthylamino)-6-pyridin-3-ylpyridazin-3(2H)-one
- methyl 4-[(5-acetyl-2-ethyl-3-oxo-6-pyridin-3-yl-2,3-dihydropyridazin-4-yl)amino]benzoate
- 5-acetyl-2-ethyl-4-[(2-fluorophenyl)amino]-6-pyridin-3-ylpyridazin-3(2H)-one
- 25 5-acetyl-4-[(2-chlorophenyl)amino]-2-ethyl-6-pyridin-3-ylpyridazin-3(2H)-one
- 5-acetyl-2-ethyl-4-[[4-(hydroxymethyl)phenyl]amino]-6-pyridin-3-ylpyridazin-3(2H)-one
- 3-[(5-acetyl-2-ethyl-3-oxo-6-pyridin-3-yl-2,3-dihydropyridazin-4-yl)amino]benzonitrile
- 5-acetyl-4-[(3-chlorophenyl)amino]-2-(cyclopropylmethyl)-6-pyridin-3-ylpyridazin-
- 30 3(2H)-one
- 5-acetyl-2-(cyclopropylmethyl)-4-[(3,5-dichlorophenyl)amino]-6-pyridin-3-ylpyridazin-3(2H)-one
- 5-acetyl-2-(cyclopropylmethyl)-4-[(2-fluorophenyl)amino]-6-pyridin-3-ylpyridazin-3(2H)-one

- 5-acetyl-4-[(2-chlorophenyl)amino]-2-(cyclopropylmethyl)-6-pyridin-3-ylpyridazin-3(2H)-one
- 3-[[5-acetyl-2-(cyclopropylmethyl)-3-oxo-6-pyridin-3-yl-2,3-dihydropyridazin-4-yl]amino]benzonitrile
- 5 methyl 4-[[5-acetyl-2-(2-hydroxyethyl)-3-oxo-6-pyridin-3-yl-2,3-dihydropyridazin-4-yl]amino]benzoate
- 5-acetyl-4-[(2-fluorophenyl)amino]-2-(2-hydroxyethyl)-6-pyridin-3-ylpyridazin-3(2H)-one
- 5-acetyl-4-[(2-chlorophenyl)amino]-2-(2-hydroxyethyl)-6-pyridin-3-ylpyridazin-3(2H)-one
- 10 5-acetyl-4-[(3-chlorophenyl)amino]-2-(2-hydroxyethyl)-6-pyridin-3-ylpyridazin-3(2H)-one
- 5-acetyl-4-[(3-chlorophenyl)amino]-2-ethyl-6-pyridin-2-ylpyridazin-3(2H)-one
- 3-[[5-acetyl-2-ethyl-3-oxo-6-pyridin-2-yl-2,3-dihydropyridazin-4-yl]amino]benzonitrile
- 15 5-acetyl-2-ethyl-4-[[4-(hydroxymethyl)phenyl]amino]-6-pyridin-2-ylpyridazin-3(2H)-one
- 3-[[5-acetyl-2-(cyclopropylmethyl)-3-oxo-6-pyridin-2-yl-2,3-dihydropyridazin-4-yl]amino]benzonitrile
- 5-acetyl-4-[(3-chlorophenyl)amino]-2-(cyclopropylmethyl)-6-pyridin-2-ylpyridazin-3(2H)-one
- 20 5-acetyl-2-(cyclopropylmethyl)-4-[[4-(hydroxymethyl)phenyl]amino]-6-pyridin-2-ylpyridazin-3(2H)-one
- 5-acetyl-2-(cyclopropylmethyl)-4-[(3,5-dichlorophenyl)amino]-6-pyridin-2-ylpyridazin-3(2H)-one
- 25 3-[[5-acetyl-2-(2-hydroxyethyl)-3-oxo-6-pyridin-2-yl-2,3-dihydropyridazin-4-yl]amino]benzonitrile
- 5-acetyl-4-[(3-chlorophenyl)amino]-2-(2-hydroxyethyl)-6-pyridin-2-ylpyridazin-3(2H)-one
- 5-acetyl-4-[(3,5-dichlorophenyl)amino]-2-(2-hydroxyethyl)-6-pyridin-2-ylpyridazin-3(2H)-one
- 30 5-acetyl-2-(2-hydroxyethyl)-4-[[4-(hydroxymethyl)phenyl]amino]-6-pyridin-2-ylpyridazin-3(2H)-one
- 5-acetyl-2-ethyl-4-[(3-fluorophenyl)amino]-6-pyridin-4-ylpyridazin-3(2H)-one
- 5-acetyl-4-[(3-chlorophenyl)amino]-2-ethyl-6-pyridin-4-ylpyridazin-3(2H)-one
- 35 5-acetyl-2-ethyl-4-(1-naphthylamino)-6-pyridin-4-ylpyridazin-3(2H)-one



- 5-acetyl-2-ethyl-4-[(2-methylphenyl)amino]-6-pyridin-4-ylpyridazin-3(2H)-one  
methyl 4-[(5-acetyl-2-ethyl-3-oxo-6-pyridin-4-yl-2,3-dihydropyridazin-4-yl)amino]benzoate
- 5 5-acetyl-2-ethyl-4-[(2-methoxyphenyl)amino]-6-pyridin-4-ylpyridazin-3(2H)-one  
5-acetyl-2-ethyl-4-[(3-methoxyphenyl)amino]-6-pyridin-4-ylpyridazin-3(2H)-one  
5-acetyl-2-ethyl-4-[(2-fluorophenyl)amino]-6-pyridin-4-ylpyridazin-3(2H)-one  
5-acetyl-4-[(2-chlorophenyl)amino]-2-ethyl-6-pyridin-4-ylpyridazin-3(2H)-one  
3-[(5-acetyl-2-ethyl-3-oxo-6-pyridin-4-yl-2,3-dihydropyridazin-4-yl)amino]benzonitrile  
5-acetyl-2-ethyl-4-[[4-(hydroxymethyl)phenyl]amino]-6-pyridin-4-ylpyridazin-3(2H)-one
- 10 one  
4-[(5-acetyl-2-ethyl-3-oxo-6-pyridin-4-yl-2,3-dihydropyridazin-4-yl)amino]benzoic acid  
5-acetyl-2-(cyclopropylmethyl)-4-[(2-fluorophenyl)amino]-6-pyridin-4-ylpyridazin-3(2H)-one
- 15 5-acetyl-4-[(2-chlorophenyl)amino]-2-(cyclopropylmethyl)-6-pyridin-4-ylpyridazin-3(2H)-one  
3-[(5-acetyl-2-(cyclopropylmethyl)-3-oxo-6-pyridin-4-yl-2,3-dihydropyridazin-4-yl)amino]benzonitrile  
5-acetyl-2-(cyclopropylmethyl)-4-[[4-(hydroxymethyl)phenyl]amino]-6-pyridin-4-ylpyridazin-3(2H)-one
- 20 5-acetyl-4-[(3-chlorophenyl)amino]-2-(cyclopropylmethyl)-6-pyridin-4-ylpyridazin-3(2H)-one  
5-acetyl-4-[(2-fluorophenyl)amino]-2-(2-hydroxyethyl)-6-pyridin-4-ylpyridazin-3(2H)-one
- 25 5-acetyl-4-[(2-chlorophenyl)amino]-2-(2-hydroxyethyl)-6-pyridin-4-ylpyridazin-3(2H)-one  
3-[(5-acetyl-2-(2-hydroxyethyl)-3-oxo-6-pyridin-4-yl-2,3-dihydropyridazin-4-yl)amino]benzonitrile  
5-acetyl-2-(2-hydroxyethyl)-4-[[4-(hydroxymethyl)phenyl]amino]-6-pyridin-4-ylpyridazin-3(2H)-one
- 30 5-acetyl-4-[(3-chlorophenyl)amino]-2-(2-hydroxyethyl)-6-pyridin-4-ylpyridazin-3(2H)-one  
5-acetyl-4-[(3-chlorophenyl)amino]-2-ethyl-6-thien-2-ylpyridazin-3(2H)-one  
5-acetyl-4-[bis(3-fluorophenyl)amino]-2-ethyl-6-pyridin-3-ylpyridazin-3(2H)-one

- 5-acetyl-4-[bis-(4-methoxycarbonylphenyl)-amino]-2-ethyl-6-pyridin-3-ylpyridazin-3(2H)-one
- 5-acetyl-4-[bis[4-(hydroxymethyl)phenyl]amino]-2-ethyl-6-pyridin-3-ylpyridazin-3(2H)-one
- 5 5-acetyl-4-[bis(3-nitrophenyl)amino]-2-ethyl-6-pyridin-4-ylpyridazin-3(2H)-one
- 5-acetyl-4-[bis(3-fluorophenyl)amino]-2-ethyl-6-pyridin-4-ylpyridazin-3(2H)-one
- 5-acetyl-4-[bis(3-chlorophenyl)amino]-2-(cyclopropylmethyl)-6-pyridin-3-ylpyridazin-3(2H)-one
- 5-acetyl-4-[bis(3,5-dichlorophenyl)amino]-2-(cyclopropylmethyl)-6-pyridin-3-ylpyridazin-3(2H)-one
- 10 5-acetyl-4-[bis(4-methoxycarbonylphenyl)amino]-2-(2-hydroxyethyl)-6-pyridin-3-ylpyridazin-3(2H)-one
- 5-acetyl-4-[bis(3-chlorophenyl)amino]-2-(2-hydroxyethyl)-6-pyridin-2-ylpyridazin-3(2H)-one
- 15 5-acetyl-4-[bis(3-chlorophenyl)amino]-2-(cyclopropylmethyl)-6-pyridin-4-ylpyridazin-3(2H)-one
- 5-acetyl-2-ethyl-6-phenyl-4-(pyridin-3-ylamino)pyridazin-3(2H)-one
- 5-acetyl-4-[(3,5-dichloropyridin-4-yl)amino]-2-ethyl-6-phenylpyridazin-3(2H)-one
- 5-acetyl-2-ethyl-6-phenyl-4-(pyrazin-2-ylamino)pyridazin-3(2H)-one
- 20 5-acetyl-2-ethyl-6-phenyl-4-(pyrimidin-2-ylamino)pyridazin-3(2H)-one
- 5-acetyl-2-ethyl-6-phenyl-4-(quinolin-8-ylamino)pyridazin-3(2H)-one
- 5-acetyl-2-ethyl-4-[(5-nitropyridin-2-yl)amino]-6-phenylpyridazin-3(2H)-one
- 5-acetyl-2-ethyl-4-(1H-indol-4-ylamino)-6-phenylpyridazin-3(2H)-one
- 5-acetyl-4-(1,3-benzothiazol-6-ylamino)-2-ethyl-6-phenylpyridazin-3(2H)-one
- 25 5-acetyl-2-ethyl-6-phenyl-4-(thianthren-1-ylamino)pyridazin-3(2H)-one
- methyl 3-[(5-acetyl-2-ethyl-3-oxo-6-phenyl-2,3-dihydropyridazin-4-yl)amino]thiophene-2-carboxylate
- 5-acetyl-2-ethyl-4-[(4-methylpyridin-2-yl)amino]-6-phenylpyridazin-3(2H)-one
- 5-acetyl-2-ethyl-6-phenyl-4-(1H-1,2,4-triazol-5-ylamino)pyridazin-3(2H)-one
- 30 5-acetyl-2-ethyl-4-[(6-methoxypyridin-3-yl)amino]-6-phenylpyridazin-3(2H)-one
- 5-acetyl-2-ethyl-4-(2H-indazol-5-ylamino)-6-phenylpyridazin-3(2H)-one
- methyl 4-[(5-acetyl-2-ethyl-3-oxo-6-phenyl-2,3-dihydropyridazin-4-yl)amino]thiophene-3-carboxylate
- 5-acetyl-2-ethyl-6-phenyl-4-(pyridin-2-ylamino)pyridazin-3(2H)-one

- 3-[(5-acetyl-2-ethyl-3-oxo-6-phenyl-2,3-dihydropyridazin-4-yl)amino]thiophene-2-carboxylic acid
- 5-acetyl-2-ethyl-4-[(3-methylcinnolin-5-yl)amino]-6-phenylpyridazin-3(2H)-one
- 5-acetyl-2-ethyl-4-[(2-methylquinolin-8-yl)amino]-6-phenylpyridazin-3(2H)-one
- 5 5-acetyl-2-ethyl-6-phenyl-4-(quinolin-5-ylamino)pyridazin-3(2H)-one
- 5-acetyl-2-ethyl-4-(1h-indol-5-ylamino)-6-phenylpyridazin-3(2H)-one
- 5-acetyl-2-ethyl-4-(isoquinolin-5-ylamino)-6-phenylpyridazin-3(2H)-one
- 5-acetyl-2-ethyl-4-[(6-methoxyquinolin-8-yl)amino]-6-phenylpyridazin-3(2H)-one
- 5-acetyl-4-[(5-bromoquinolin-8-yl)amino]-2-ethyl-6-phenylpyridazin-3(2H)-one
- 10 5-acetyl-2-ethyl-4-[(4-methylpyrimidin-2-yl)amino]-6-phenylpyridazin-3(2H)-one
- 5-acetyl-6-(3-chlorophenyl)-2-ethyl-4-(pyridin-3-ylamino)pyridazin-3(2H)-one
- 5-acetyl-6-(3-chlorophenyl)-2-(cyclopropylmethyl)-4-(pyridin-3-ylamino)pyridazin-3(2H)-one
- 5-acetyl-2-ethyl-6-(3-fluorophenyl)-4-(pyridin-3-ylamino)pyridazin-3(2H)-one
- 15 5-acetyl-6-(3-fluorophenyl)-2-isopropyl-4-(pyridin-3-ylamino)pyridazin-3(2H)-one
- 5-acetyl-2-(cyclopropylmethyl)-6-(3-fluorophenyl)-4-(pyridin-3-ylamino)pyridazin-3(2H)-one
- 5-acetyl-2-ethyl-6-(4-fluorophenyl)-4-(pyridin-3-ylamino)pyridazin-3(2H)-one
- 5-acetyl-6-(1h-benzimidazol-2-yl)-4-[(3-chlorophenyl)amino]-2-ethylpyridazin-3(2H)-one
- 20 one
- 5-acetyl-6-(1,3-benzoxazol-2-yl)-4-[(3-chlorophenyl)amino]-2-ethylpyridazin-3(2H)-one
- 5-acetyl-6-(1,3-benzoxazol-2-yl)-2-ethyl-4-[(3-fluorophenyl)amino]pyridazin-3(2H)-one
- 25 5-acetyl-6-benzoxazol-2-yl-4-[bis-(3-chlorophenyl)-amino]-2-ethyl-pyridazin-3(2H)-one
- 5-acetyl-6-benzoxazol-2-yl-4-[bis-(3-fluorophenyl)-amino]-2-ethyl-pyridazin-3(2H)-one
- 3-[(5-acetyl-2-ethyl-3-oxo-6-pyridin-3-yl-2,3-dihydropyridazin-4-yl)amino]benzamide
- 30 5-acetyl-2-ethyl-4-(isoquinolin-1-ylamino)-6-phenylpyridazin-3(2H)-one
- 5-acetyl-4-[(2-butylquinazolin-4-yl)amino]-2-ethyl-6-phenylpyridazin-3(2H)-one
- 5-acetyl-4-(1,2-benzisothiazol-3-ylamino)-2-ethyl-6-phenylpyridazin-3(2H)-one
- 5-acetyl-2-ethyl-6-phenyl-4-(pyridin-4-ylamino)pyridazin-3(2H)-one
- 5-acetyl-2-ethyl-4-[(2-hydroxy-7h-purin-6-yl)amino]-6-phenylpyridazin-3(2H)-one
- 35 5-acetyl-2-ethyl-6-phenyl-4-(quinazolin-4-ylamino)pyridazin-3(2H)-one

- 5-acetyl-4-[(4-chloro-1H-indazol-3-yl)amino]-2-ethyl-6-phenylpyridazin-3(2H)-one  
 5-acetyl-4-[(7-chloroquinolin-4-yl)amino]-2-ethyl-6-phenylpyridazin-3(2H)-one  
 5-acetyl-4-[(4,6-dichloropyrimidin-2-yl)amino]-2-ethyl-6-phenylpyridazin-3(2H)-one  
 5-acetyl-2-ethyl-4-[(6-hydroxy-2H-pyrazolo[3,4-d]pyrimidin-4-yl)amino]-6-phenylpyridazin-3(2H)-one  
 5-acetyl-2-ethyl-4-[(2-methylquinolin-4-yl)amino]-6-phenylpyridazin-3(2H)-one  
 5-acetyl-2-ethyl-4-(1H-imidazol-2-ylamino)-6-phenylpyridazin-3(2H)-one  
 5-acetyl-2-ethyl-6-phenyl-4-(quinolin-4-ylamino)pyridazin-3(2H)-one  
 5-acetyl-4-(cinnolin-4-ylamino)-2-ethyl-6-phenylpyridazin-3(2H)-one  
 5-acetyl-2-ethyl-6-phenyl-4-(1H-pyrazolo[3,4-d]pyrimidin-4-ylamino)pyridazin-3(2H)-one  
 5-acetyl-2-ethyl-6-phenyl-4-(thieno[2,3-d]pyrimidin-4-ylamino)pyridazin-3(2H)-one  
 5-acetyl-2-ethyl-4-(1H-indazol-6-ylamino)-6-phenylpyridazin-3(2H)-one  
 5-acetyl-4-[(3-chlorophenyl)amino]-2-ethyl-6-(2-methoxypyridin-4-yl)pyridazin-3(2H)-one  
 5-acetyl-2-ethyl-4-[[4-(hydroxymethyl)phenyl]amino]-6-(6-methoxypyridin-3-yl)pyridazin-3(2H)-one  
 5-acetyl-2-ethyl-4-[(3-methoxyphenyl)amino]-6-thien-3-ylpyridazin-3(2H)-one  
 5-acetyl-6-(1-benzofuran-5-yl)-2-ethyl-4-[(3-fluorophenyl)amino]pyridazin-3(2H)-one  
 1-ethyl-5-[(3-methoxyphenyl)amino]-n,n-dimethyl-6-oxo-3-pyridin-3-yl-1,6-dihydropyridazine-4-carboxamide  
 5-[(3-chlorophenyl)amino]-1-ethyl-n-methyl-6-oxo-3-pyridin-4-yl-1,6-dihydropyridazine-4-carboxamide  
 2-ethyl-4-[(3-fluorophenyl)amino]-5-glycoloyl-6-pyridin-4-ylpyridazin-3(2H)-one  
 2-ethyl-4-[(3-fluorophenyl)amino]-5-(methoxyacetyl)-6-pyridin-3-ylpyridazin-3(2H)-one  
 5-[(dimethylamino)acetyl]-2-ethyl-4-[(3-methoxyphenyl)amino]-6-pyridin-3-ylpyridazin-3(2H)-one  
 2-ethyl-4-[(3-fluorophenyl)amino]-5-[(methylamino)acetyl]-6-pyridin-4-ylpyridazin-3(2H)-one  
 3-[[2-ethyl-3-oxo-5-(3-phenylpropanoyl)-6-pyridin-4-yl-2,3-dihydropyridazin-4-yl]amino]benzamide  
 ethyl 4-acetyl-5-[(3-chlorophenyl)amino]-1-ethyl-6-oxo-1,6-dihydropyridazine-3-carboxylate  
 ethyl 4-acetyl-5-amino-1-ethyl-6-oxo-1,6-dihydropyridazine-3-carboxylate

- 5-acetyl-6-(1,3-benzoxazol-2-yl)-2-ethyl-4-[(3-methoxyphenyl)amino]pyridazin-3(2H)-one
- 5-acetyl-6-(1,3-benzoxazol-2-yl)-2-ethyl-4-[[4-(hydroxymethyl)phenyl]amino]pyridazin-3(2H)-one
- 5- 5-acetyl-2-ethyl-4-(isoquinolin-4-ylamino)-6-phenylpyridazin-3(2H)-one
- 5-acetyl-2-ethyl-4-(1,6-naphthyridin-8-ylamino)-6-phenylpyridazin-3(2H)-one
- 5-acetyl-2-ethyl-4-[(5-methoxypyridin-3-yl)amino]-6-phenylpyridazin-3(2H)-one
- 5-acetyl-2-ethyl-6-pyridin-4-yl-4-(pyridin-3-ylamino)pyridazin-3(2H)-one
- 5-acetyl-2-ethyl-4-[(4-methylpyridin-3-yl)amino]-6-pyridin-4-ylpyridazin-3(2H)-one
- 10 5-acetyl-2-ethyl-4-(isoquinolin-4-ylamino)-6-pyridin-4-ylpyridazin-3(2H)-one
- 5-acetyl-2-ethyl-6-pyridin-4-yl-4-[(3,4,5-trifluorophenyl)amino]pyridazin-3(2H)-one
- 5-acetyl-2-ethyl-4-[(4-methylpyridin-3-yl)amino]-6-pyridin-3-ylpyridazin-3(2H)-one
- 5-acetyl-2-ethyl-4-(isoquinolin-4-ylamino)-6-pyridin-3-ylpyridazin-3(2H)-one
- 5-acetyl-2-ethyl-6-pyridin-3-yl-4-[(3,4,5-trifluorophenyl)amino]pyridazin-3(2H)-one
- 15 5-acetyl-2-ethyl-4-(quinolin-5-ylamino)-6-thien-2-ylpyridazin-3(2H)-one
- 5-acetyl-2-ethyl-4-(pyridin-3-ylamino)-6-thien-2-ylpyridazin-3(2H)-one
- 4-[(5-acetyl-2-ethyl-3-oxo-6-thien-2-yl-2,3-dihydropyridazin-4-yl)amino]benzonitrile
- 5-acetyl-2-ethyl-6-thien-2-yl-4-[(3,4,5-trifluorophenyl)amino]pyridazin-3(2H)-one
- 5-Acetyl-4-(bis (4-cyanophenyl)amino)- 2-ethyl-6-thien-2-ylpyridazin-3(2H)-one
- 20 5-acetyl-2-(cyclopropylmethyl)-4-(quinolin-5-ylamino)-6-thien-2-ylpyridazin-3(2H)-one
- one
- 5-acetyl-2-(cyclopropylmethyl)-4-(pyridin-3-ylamino)-6-thien-2-ylpyridazin-3(2H)-one
- 5-acetyl-2-ethyl-4-(quinolin-5-ylamino)-6-thien-3-ylpyridazin-3(2H)-one
- 5-acetyl-4-[(3-chlorophenyl)amino]-2-ethyl-6-thien-3-ylpyridazin-3(2H)-one
- 25 5-acetyl-2-ethyl-4-(pyridin-3-ylamino)-6-thien-3-ylpyridazin-3(2H)-one
- 4-[(5-acetyl-2-ethyl-3-oxo-6-thien-3-yl-2,3-dihydropyridazin-4-yl)amino]benzonitrile
- 5-acetyl-2-ethyl-6-thien-3-yl-4-[(3,4,5-trifluorophenyl)amino]pyridazin-3(2H)-one
- 2-ethyl-6-phenyl-5-(3-phenylpropanoyl)-4-(quinolin-5-ylamino)pyridazin-3(2H)-one
- 2-ethyl-6-phenyl-5-(3-phenylpropanoyl)-4-(pyridin-3-ylamino)pyridazin-3(2H)-one
- 30 2-ethyl-4-(isoquinolin-4-ylamino)-6-phenyl-5-(3-phenylpropanoyl)pyridazin-3(2H)-one
- one
- 2-ethyl-6-phenyl-4-(quinolin-5-ylamino)-5-(3-thien-3-ylpropanoyl)pyridazin-3(2H)-one
- one
- 2-ethyl-6-phenyl-4-(pyridin-3-ylamino)-5-(3-thien-3-ylpropanoyl)pyridazin-3(2H)-one

- 5-acetyl-4-[(3-chlorophenyl)amino]-2-ethyl-6-(1H-imidazo[4,5-b]pyridin-2-yl)pyridazin-3(2H)-one
- 5-acetyl-6-(1,3-benzothiazol-2-yl)-4-[(3-chlorophenyl)amino]-2-ethylpyridazin-3(2H)-one
- 5 5-acetyl-6-(1-benzofuran-2-yl)-4-[(3-chlorophenyl)amino]-2-ethylpyridazin-3(2H)-one
- 5-acetyl-2-ethyl-6-pyridin-3-yl-4-(pyridin-3-ylamino)pyridazin-3(2H)-one
- 4-[(5-acetyl-2-ethyl-3-oxo-6-pyridin-3-yl-2,3-dihydropyridazin-4-yl)amino]benzoic acid
- 10 5-acetyl-2-ethyl-4-[(1-oxidopyridin-3-yl)amino]-6-phenylpyridazin-3(2H)-one
- ethyl 3-(5-acetyl-2-ethyl-3-oxo-6-pyridin-4-yl-2,3-dihydro-pyridazin-4-ylamino)benzoate
- 3-[(5-acetyl-2-ethyl-3-oxo-6-pyridin-4-yl-2,3-dihydropyridazin-4-yl)amino]benzamide
- 5-acetyl-2-ethyl-6-phenyl-4-(thieno[2,3-b]pyridin-3-ylamino)pyridazin-3(2H)-one
- 15 5-acetyl-2-ethyl-4-[(6-fluoropyridin-3-yl)amino]-6-phenylpyridazin-3(2H)-one
- 5-acetyl-2-ethyl-4-[(2-methylpyridin-3-yl)amino]-6-phenylpyridazin-3(2H)-one
- 5-acetyl-4-[[2-(dimethylamino)pyridin-3-yl]amino]-2-ethyl-6-phenylpyridazin-3(2H)-one
- 5-[(5-acetyl-2-ethyl-3-oxo-6-phenyl-2,3-dihydropyridazin-4-yl)amino]pyridine-2-carboxylic acid
- 20 5-acetyl-2-ethyl-4-[(2-methoxypyridin-3-yl)amino]-6-phenylpyridazin-3(2H)-one
- 5-acetyl-2-ethyl-4-(1H-indazol-4-ylamino)-6-phenylpyridazin-3(2H)-one
- 5-acetyl-4-[(2-chloropyridin-3-yl)amino]-2-ethyl-6-phenylpyridazin-3(2H)-one
- 5-acetyl-4-[(5-chloropyridin-3-yl)amino]-2-ethyl-6-phenylpyridazin-3(2H)-one
- 25 5-[(5-acetyl-2-ethyl-3-oxo-6-phenyl-2,3-dihydropyridazin-4-yl)amino]nicotinamide
- 5-acetyl-2-ethyl-4-(1,7-naphthyridin-8-ylamino)-6-phenylpyridazin-3(2H)-one
- 2-ethyl-5-glycoloyl-4-[(2-methylpyridin-3-yl)amino]-6-phenylpyridazin-3(2H)-one
- methyl 5-[(5-acetyl-2-ethyl-3-oxo-6-phenyl-2,3-dihydropyridazin-4-yl)amino]nicotinate
- 30 5-[(5-acetyl-2-ethyl-3-oxo-6-phenyl-2,3-dihydropyridazin-4-yl)amino]nicotinic acid
- 5-acetyl-2-ethyl-4-(1,5-naphthyridin-3-ylamino)-6-phenylpyridazin-3(2H)-one
- 5-acetyl-2-ethyl-4-[(8-hydroxy-1,7-naphthyridin-5-yl)amino]-6-phenylpyridazin-3(2H)-one
- 5-acetyl-2-ethyl-6-phenyl-4-(thien-2-ylamino)pyridazin-3(2H)-one
- 35 5-acetyl-2-ethyl-6-phenyl-4-[(2-phenylpyridin-3-yl)amino]pyridazin-3(2H)-one

- ethyl {5-[(5-acetyl-2-ethyl-3-oxo-6-phenyl-2,3-dihydropyridazin-4-yl)amino]pyridin-2-yl}acetate
- 5-acetyl-2-ethyl-4-[(6-methylpyridin-3-yl)amino]-6-phenylpyridazin-3(2H)-one
- 5-acetyl-2-ethyl-4-[(6-hydroxypyridin-3-yl)amino]-6-phenylpyridazin-3(2H)-one
- 5 5-acetyl-2-ethyl-4-[(2-fluoropyridin-3-yl)amino]-6-phenylpyridazin-3(2H)-one
- 5-acetyl-4-[(6-chloro-4-methylpyridin-3-yl)amino]-2-ethyl-6-phenylpyridazin-3(2H)-one
- 5-acetyl-2-ethyl-4-[(3-hydroxypyridin-2-yl)amino]-6-phenylpyridazin-3(2H)-one
- 5-acetyl-2-ethyl-4-[(4-methoxypyridin-3-yl)amino]-6-phenylpyridazin-3(2H)-one
- 10 5-acetyl-2-ethyl-4-(isoquinolin-8-ylamino)-6-phenylpyridazin-3(2H)-one
- 5-acetyl-2-ethyl-6-phenyl-4-(quinolin-7-ylamino)pyridazin-3(2H)-one
- 5-acetyl-4-[(5-chloropyridin-3-yl)amino]-2-ethyl-6-(3-fluorophenyl)pyridazin-3(2H)-one
- 5-acetyl-2-ethyl-6-(4-fluorophenyl)-4-[(2-methoxypyridin-3-yl)amino]pyridazin-3(2H)-one
- 15 5-acetyl-2-ethyl-6-(4-fluorophenyl)-4-[(2-methylpyridin-3-yl)amino]pyridazin-3(2H)-one
- 5-acetyl-4-[(2-chloropyridin-3-yl)amino]-2-ethyl-6-(4-fluorophenyl)pyridazin-3(2H)-one
- 20 5-acetyl-2-ethyl-6-(4-fluorophenyl)-4-[(4-methylpyridin-3-yl)amino]pyridazin-3(2H)-one
- 5-acetyl-2-ethyl-6-(4-fluorophenyl)-4-[(2-fluoropyridin-3-yl)amino]pyridazin-3(2H)-one
- 5-acetyl-4-[(2-chloropyridin-3-yl)amino]-2-(cyclopropylmethyl)-6-(4-fluorophenyl)pyridazin-3(2H)-one
- 25 5-acetyl-2-(cyclopropylmethyl)-6-(4-fluorophenyl)-4-[(2-methoxypyridin-3-yl)amino]pyridazin-3(2H)-one
- 5-acetyl-2-(cyclopropylmethyl)-6-(4-fluorophenyl)-4-[(2-methylpyridin-3-yl)amino]pyridazin-3(2H)-one
- 30 5-acetyl-2-(cyclopropylmethyl)-6-(4-fluorophenyl)-4-[(2-fluoropyridin-3-yl)amino]pyridazin-3(2H)-one
- 5-acetyl-2-(cyclopropylmethyl)-6-(4-fluorophenyl)-4-[(4-methylpyridin-3-yl)amino]pyridazin-3(2H)-one
- 5-acetyl-2-(cyclopropylmethyl)-6-(4-fluorophenyl)-4-[(pyridin-3-yl)amino]pyridazin-3(2H)-one
- 35 3(2H)-one

- 5-acetyl-6-(3-chlorophenyl)-2-ethyl-4-[(2-methylpyridin-3-yl)amino]pyridazin-3(2H)-one
- 5-acetyl-6-(3-chlorophenyl)-4-[(2-chloropyridin-3-yl)amino]-2-ethylpyridazin-3(2H)-one
- 5 5-acetyl-6-(3-chlorophenyl)-2-ethyl-4-[(4-methylpyridin-3-yl)amino]pyridazin-3(2H)-one
- methyl 5-[(5-acetyl-2-ethyl-3-oxo-6-phenyl-2,3-dihydropyridazin-4-yl)amino]quinoline-8-carboxylate
- 5-acetyl-2-ethyl-4-[(4-methylpyridin-3-yl)amino]-6-phenylpyridazin-3(2H)-one
- 10 5-acetyl-2-ethyl-4-(isoquinolin-4-ylamino)-6-(4-methoxyphenyl)pyridazin-3(2H)-one
- 5-acetyl-2-ethyl-6-(4-methoxyphenyl)-4-(pyridin-3-ylamino)pyridazin-3(2H)-one
- 5-acetyl-2-ethyl-6-(4-methoxyphenyl)-4-(quinolin-5-ylamino)pyridazin-3(2H)-one
- 5-acetyl-2-ethyl-6-(4-methoxyphenyl)-4-(1-oxy-quinolin-5-ylamino)-2H-pyridazin-3-one
- 15 5-acetyl-2-ethyl-4-(isoquinolin-4-ylamino)-6-(3-methoxyphenyl)pyridazin-3(2H)-one
- 5-acetyl-2-ethyl-6-(3-methoxyphenyl)-4-(pyridin-3-ylamino)pyridazin-3(2H)-one
- 5-acetyl-2-ethyl-6-(3-methoxyphenyl)-4-(quinolin-5-ylamino)pyridazin-3(2H)-one
- 5-acetyl-2-ethyl-6-(3-methoxyphenyl)-4-[(1-oxidoquinolin-5-yl)amino]pyridazin-3(2H)-one
- 20 5-acetyl-2-ethyl-4-(isoquinolin-4-ylamino)-6-(4-methylphenyl)pyridazin-3(2H)-one
- 5-acetyl-2-ethyl-6-(4-methylphenyl)-4-(pyridin-3-ylamino)pyridazin-3(2H)-one
- 5-acetyl-2-ethyl-6-(4-methylphenyl)-4-(quinolin-5-ylamino)pyridazin-3(2H)-one
- 5-acetyl-2-ethyl-6-(4-methylphenyl)-4-[(1-oxidoquinolin-5-yl)amino]pyridazin-3(2H)-one
- 25 5-acetyl-2-ethyl-6-(4-methylphenyl)-4-[(4-methylpyridin-3-yl)amino]pyridazin-3(2H)-one
- 5-acetyl-2-ethyl-4-(isoquinolin-4-ylamino)-6-(3-methylphenyl)pyridazin-3(2H)-one
- 5-acetyl-2-ethyl-6-(3-methylphenyl)-4-(pyridin-3-ylamino)pyridazin-3(2H)-one
- 5-acetyl-2-ethyl-6-(3-methylphenyl)-4-(quinolin-5-ylamino)pyridazin-3(2H)-one
- 30 5-acetyl-2-ethyl-6-(3-methylphenyl)-4-[(4-methylpyridin-3-yl)amino]pyridazin-3(2H)-one
- methyl 4-[4-acetyl-1-ethyl-5-(isoquinolin-4-ylamino)-6-oxo-1,6-dihydropyridazin-3-yl]benzoate
- methyl 4-[4-acetyl-1-ethyl-6-oxo-5-(pyridin-3-ylamino)-1,6-dihydropyridazin-3-yl]benzoate
- 35



- 4-[4-acetyl-1-ethyl-6-oxo-5-(pyridin-3-ylamino)-1,6-dihydropyridazin-3-yl]benzoic acid
- methyl 4-{4-acetyl-1-ethyl-5-[(4-methylpyridin-3-yl)amino]-6-oxo-1,6-dihydropyridazin-3-yl}benzoate
- 5 4-{4-acetyl-1-ethyl-5-[(4-methylpyridin-3-yl)amino]-6-oxo-1,6-dihydropyridazin-3-yl}benzoic acid
- methyl 3-[4-acetyl-1-ethyl-6-oxo-5-(pyridin-3-ylamino)-1,6-dihydropyridazin-3-yl]benzoate
- 10 3-[4-acetyl-1-ethyl-6-oxo-5-(pyridin-3-ylamino)-1,6-dihydropyridazin-3-yl]benzoic acid
- 5-acetyl-4-[(3-chloro-4-fluorophenyl)amino]-2-ethyl-6-pyridin-4-ylpyridazin-3(2H)-one
- 5-acetyl-4-[bis(3-chloro-4-fluorophenyl)amino]-2-ethyl-6-pyridin-4-ylpyridazin-3(2H)-one
- 15 5-acetyl-4-[(3-chloro-4-fluorophenyl)amino]-2-ethyl-6-pyridin-3-ylpyridazin-3(2H)-one
- 5-acetyl-4-[bis(3-chloro-4-fluorophenyl)amino]-2-ethyl-6-pyridin-3-ylpyridazin-3(2H)-one
- methyl [4-acetyl-6-oxo-3-phenyl-5-(quinolin-5-ylamino)pyridazin-1(6H)-yl]acetate
- 20 [4-acetyl-6-oxo-3-phenyl-5-(quinolin-5-ylamino)pyridazin-1(6H)-yl]acetic acid
- 5-acetyl-2-ethyl-4-[(3-methylpyridin-2-yl)amino]-6-phenylpyridazin-3(2H)-one
- 5-acetyl-2-ethyl-6-phenyl-4-(1H-pyrazol-3-ylamino)pyridazin-3(2H)-one
- 5-acetyl-2-ethyl-6-phenyl-4-(9H-purin-6-ylamino)pyridazin-3(2H)-one
- 5-acetyl-2-ethyl-4-[(3-methylisoxazol-5-yl)amino]-6-phenylpyridazin-3(2H)-one
- 25 5-acetyl-2-ethyl-4-[(8-hydroxyquinolin-5-yl)amino]-6-phenylpyridazin-3(2H)-one
- 5-acetyl-2-ethyl-4-(1H-indazol-7-ylamino)-6-phenylpyridazin-3(2H)-one
- 5-acetyl-4-[(6-bromoquinolin-8-yl)amino]-2-ethyl-6-phenylpyridazin-3(2H)-one
- 5-acetyl-2-ethyl-4-[(5-methylisoxazol-3-yl)amino]-6-phenylpyridazin-3(2H)-one
- 5-acetyl-2-ethyl-4-(isoxazol-3-ylamino)-6-phenylpyridazin-3(2H)-one
- 30 5-acetyl-2-(cyclopropylmethyl)-6-phenyl-4-(quinolin-5-ylamino)pyridazin-3(2H)-one
- 5-acetyl-2-(cyclopropylmethyl)-6-phenyl-4-(quinolin-8-ylamino)pyridazin-3(2H)-one
- 5-acetyl-2-ethyl-4-[(1-methyl-1H-pyrazol-3-yl)amino]-6-phenylpyridazin-3(2H)-one
- 5-acetyl-2-ethyl-4-[(1-oxidoquinolin-5-yl)amino]-6-phenylpyridazin-3(2H)-one
- 5-acetyl-2-ethyl-4-[(2-oxidoisoquinolin-5-yl)amino]-6-phenylpyridazin-3(2H)-one
- 35 5-acetyl-6-(3-chlorophenyl)-2-ethyl-4-(quinolin-5-ylamino)pyridazin-3(2H)-one

- 5-acetyl-6-(3-chlorophenyl)-2-ethyl-4-(quinolin-8-ylamino)pyridazin-3(2H)-one  
 5-acetyl-2-ethyl-6-pyridin-4-yl-4-(quinolin-5-ylamino)pyridazin-3(2H)-one  
 5-acetyl-2-ethyl-6-pyridin-3-yl-4-(quinolin-5-ylamino)pyridazin-3(2H)-one  
 5-acetyl-2-ethyl-4-[(8-fluoroquinolin-5-yl)amino]-6-phenylpyridazin-3(2H)-one  
 5 5-acetyl-2-(cyclopropylmethyl)-6-(4-fluorophenyl)-4-(quinolin-8-ylamino)pyridazin-3(2H)-one  
 5-acetyl-2-ethyl-6-(4-fluorophenyl)-4-(quinolin-5-ylamino)pyridazin-3(2H)-one  
 5-acetyl-2-ethyl-6-(4-fluorophenyl)-4-(quinolin-8-ylamino)pyridazin-3(2H)-one  
 5-acetyl-2-(cyclopropylmethyl)-6-(4-fluorophenyl)-4-(quinolin-5-ylamino)pyridazin-3(2H)-one  
 10 3(2H)-one  
 5-acetyl-6-(3-chlorophenyl)-2-ethyl-4-[(1-oxidoquinolin-5-yl)amino]pyridazin-3(2H)-one  
 5-acetyl-2-ethyl-4-[(2-methylquinolin-5-yl)amino]-6-phenylpyridazin-3(2H)-one  
 5-acetyl-6-(3-chlorophenyl)-2-ethyl-4-(isoquinolin-5-ylamino)pyridazin-3(2H)-one  
 15 5-acetyl-2-ethyl-6-(4-fluorophenyl)-4-[(1-oxidoquinolin-5-yl)amino]pyridazin-3(2H)-one  
 5-acetyl-2-ethyl-6-(3-fluorophenyl)-4-(quinolin-5-ylamino)pyridazin-3(2H)-one  
 5-acetyl-2-ethyl-6-(3-fluorophenyl)-4-[(1-oxidoquinolin-5-yl)amino]pyridazin-3(2H)-one  
 20 5-[(5-acetyl-2-ethyl-3-oxo-6-phenyl-2,3-dihydropyridazin-4-yl)amino]quinoline-8-carboxylic acid  
 and pharmaceutically acceptable salts thereof.
- 25 18. A compound according to claim 17 which is one of:  
 5-Acetyl-2-ethyl-4-[(3-fluorophenyl)amino]-6-pyridin-3-ylpyridazin-3(2H)-one  
 5-Acetyl-2-ethyl-4-(1-naphthylamino)-6-pyridin-3-ylpyridazin-3(2H)-one  
 5-Acetyl-4-[(3-chlorophenyl)amino]-2-ethyl-6-pyridin-4-ylpyridazin-3(2H)-one  
 5-Acetyl-2-ethyl-4-(1-naphthylamino)-6-pyridin-4-ylpyridazin-3(2H)-one  
 30 5-Acetyl-2-ethyl-4-[(2-methylphenyl)amino]-6-pyridin-4-ylpyridazin-3(2H)-one  
 5-Acetyl-2-ethyl-4-[(3-methoxyphenyl)amino]-6-pyridin-4-ylpyridazin-3(2H)-one  
 4-[(5-Acetyl-2-ethyl-3-oxo-6-pyridin-4-yl-2,3-dihydropyridazin-4-yl)amino]benzoic acid  
 5-Acetyl-4-[(3-chlorophenyl)amino]-2-(2-hydroxyethyl)-6-pyridin-4-ylpyridazin-3(2H)-one  
 35 one

- 5-Acetyl-4-[(3-chlorophenyl)amino]-2-ethyl-6-thien-2-ylpyridazin-3(2H)-one  
5-Acetyl-2-ethyl-6-phenyl-4-(pyridin-3-ylamino)pyridazin-3(2H)-one  
5-Acetyl-2-ethyl-6-phenyl-4-(quinolin-8-ylamino)pyridazin-3(2H)-one  
5-Acetyl-2-ethyl-4-(1H-indol-4-ylamino)-6-phenylpyridazin-3(2H)-one  
5 5-Acetyl-2-ethyl-6-phenyl-4-(quinolin-5-ylamino)pyridazin-3(2H)-one  
5-Acetyl-6-(3-fluorophenyl)-2-isopropyl-4-(pyridin-3-ylamino)pyridazin-3(2H)-one  
5-Acetyl-2-(cyclopropylmethyl)-6-(3-fluorophenyl)-4-(pyridin-3-ylamino)pyridazin-3(2H)-one  
5-Acetyl-2-ethyl-6-(4-fluorophenyl)-4-(pyridin-3-ylamino)pyridazin-3(2H)-one  
5-Acetyl-2-ethyl-4-(isoquinolin-5-ylamino)-6-phenylpyridazin-3(2H)-one  
5-Acetyl-6-(1,3-benzoxazol-2-yl)-2-ethyl-4-[(3-fluorophenyl)amino]pyridazin-3(2H)-one  
5-Acetyl-2-ethyl-4-[(1-oxidoquinolin-5-yl)amino]-6-phenylpyridazin-3(2H)-one  
5-Acetyl-2-ethyl-4-(isoquinolin-4-ylamino)-6-phenylpyridazin-3(2H)-one  
15 2-Ethyl-6-phenyl-5-(3-phenylpropanoyl)-4-(pyridin-3-ylamino)pyridazin-3(2H)-one  
5-Acetyl-2-ethyl-4-(isoquinolin-4-ylamino)-6-(3-methylphenyl)pyridazin-3(2H)-one  
5-Acetyl-2-ethyl-4-(isoquinolin-4-ylamino)-6-pyridin-4-ylpyridazin-3(2H)-one  
5-Acetyl-2-ethyl-4-(isoquinolin-4-ylamino)-6-(4-methylphenyl)pyridazin-3(2H)-one  
5-Acetyl-2-ethyl-6-(4-fluorophenyl)-4-[(4-methylpyridin-3-yl)amino]pyridazin-3(2H)-one  
20 one  
5-[(5-Acetyl-2-ethyl-3-oxo-6-phenyl-2,3-dihydropyridazin-4-yl)amino]quinoline-8-carboxylic acid  
5-Acetyl-2-ethyl-4-[(4-methylpyridin-3-yl)amino]-6-phenylpyridazin-3(2H)-one  
Methyl 3-[4-acetyl-1-ethyl-6-oxo-5-(pyridin-3-ylamino)-1,6-dihydropyridazin-3-yl]benzoate  
25 5-acetyl-2-ethyl-6-(3-methylphenyl)-4-[(4-methylpyridin-3-yl)amino]pyridazin-3(2H)-one  
5-Acetyl-2-ethyl-4-(pyridin-3-ylamino)-6-thien-3-ylpyridazin-3(2H)-one  
5-Acetyl-2-ethyl-4-[(2-methylpyridin-3-yl)amino]-6-phenylpyridazin-3(2H)-one  
30 3-(4-Acetyl-5-amino-1-ethyl-6-oxo-1,6-dihydro-pyridazin-3-yl)-benzoic acid methyl ester  
5-Acetyl-2-ethyl-6-(3-methylphenyl)-4-(pyridin-3-ylamino)pyridazin-3(2H)-one  
5-Acetyl-2-ethyl-6-(3-fluorophenyl)-4-(pyridin-3-ylamino)-pyridazin-3(2H)-one  
5-Acetyl-2-ethyl-4-[(4-methylpyridin-3-yl)amino]-6-pyridin-4-ylpyridazin-3(2H)-one  
35 5-Acetyl-2-ethyl-4-[(4-methylpyridin-3-yl)amino]-6-pyridin-3-ylpyridazin-3(2H)-one

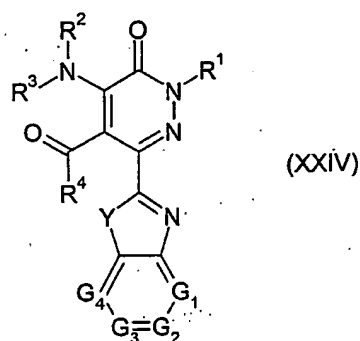
5-Acetyl-4-[(2-chloropyridin-3-yl)amino]-2-ethyl-6-phenylpyridazin-3(2H)-one

5-Acetyl-2-ethyl-6-pyridin-3-yl-4-(pyridin-3-ylamino)pyridazin-3(2H)-one

5-Acetyl-2-ethyl-6-(4-methylphenyl)-4-[(4-methylpyridin-3-yl)amino]pyridazin-3(2H)-one

5 5-Acetyl-2-ethyl-6-phenyl-4-(thieno[2,3-b]pyridin-3-ylamino)pyridazin-3(2H)-one

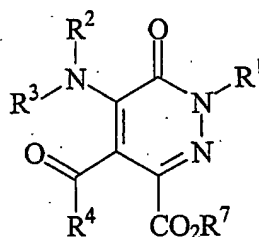
19. A process for the preparation of a compound of formula (XXIV):



10

wherein  $R^1$ ,  $R^2$ ,  $R^3$ ,  $R^4$  have the meanings defined in any of claims 1 to 14, wherein each  $G_1$ ,  $G_2$ ,  $G_3$  and  $G_4$  independently represent a nitrogen or carbon atom,  $Y$  represents an O atom, a S atom or an -NH- group and the benzene ring may optionally be substituted by one or more substituents, which process comprises reacting a

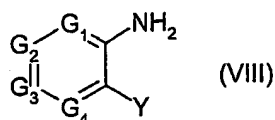
15 carboxylic acid ester of formula (VII)



VII

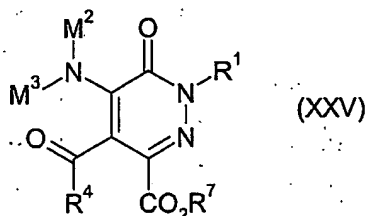
wherein  $R^1$ ,  $R^2$ ,  $R^3$  and  $R^4$  are as defined in any one of claim 1 to 12, with an ortho-

20 substituted aniline of formula (VIII) in the presence of a dehydrating agent,



wherein each  $G_1$ ,  $G_2$ ,  $G_3$  and  $G_4$  independently represent a nitrogen or carbon atom  
 5 and Y represents an amino, mercapto or hydroxy group.

20. A compound of formula (XXV)



10

wherein  $M^2$  is either a hydrogen atom or a group  $R^2$  and  $M^3$  is either a hydrogen atom  
 or a group  $R^3$  wherein  $R^1$ ,  $R^2$ ,  $R^3$ ,  $R^4$  and  $R^7$  are as defined in any of claims 1 to 15.

21. A compound according to claim 20, which is ethyl 4-acetyl-5-amino-1-ethyl-6-oxo-  
 15 1,6-dihydropyridazine-3-carboxylate.

22. A compound according to any one of claims 1 to 18 for use in the treatment of the  
 human or animal body.

20. 23. A pharmaceutical composition comprising a compound according to any one of  
 claims 1 to 18 mixed with a pharmaceutically acceptable diluent or carrier.

24. Use of a compound according to any one of claims 1 to 18, in the manufacture of a  
 medicament for the treatment or prevention of a pathological condition or disease  
 25 susceptible to amelioration by inhibition of phosphodiesterase 4.

25. Use according to claim 24, wherein the medicament is for use in the treatment or prevention of a disorder which is asthma, chronic obstructive pulmonary disease, rheumatoid arthritis, atopic dermatitis, psoriasis or irritable bowel disease.
- 5 26. A method for treating a subject afflicted with a pathological condition or disease susceptible to amelioration by inhibition of phosphodiesterase 4, which method comprises administering to the said subject an effective amount of a compound according to any of claims 1 to 18.
- 10 27. A method according to claim 26, wherein the pathological condition or disease is asthma, chronic obstructive pulmonary disease, rheumatoid arthritis, atopic dermatitis, psoriasis or irritable bowel disease.
28. A combination product comprising:
- 15 (i) a compound according to any one of claims 1 to 18; and
- (ii) another compound selected from (a) steroids, (b) immunosuppressive agents, (c) T-cell receptor blockers and (d) antiinflammatory drugs for simultaneous, separate or sequential use in the treatment of the human or animal body.